

**EL ELEMENT OF ORGANIC THIN FILM (05-078655****Publication Number:** JP 5078655 A) , March 30, 1993**Inventors:**

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**Application Number:** 02-340900 (JP 90340900) , November 30, 1990**International Class (IPC Edition 5):**

- C09K-011/06
- H05B-033/14

**JAPIO Class:**

- 13.9 (INORGANIC CHEMISTRY--- Other)
- 43.4 (ELECTRIC POWER--- Applications)

**Abstract:**

**PURPOSE:** To obtain the subject full color element having enlarged selection width of organic coloring matter and high luminance at low-voltage drive free from concentration quenching, comprising a mixture of an organic luminescent material and an organic electron transfer material as a component of a thin film layer of organic luminescent material.

**CONSTITUTION:** An thin film layer of an organic luminescent material comprising a mixture of an organic electron transfer material and an organic luminescent material is arranged between a pair of electrodes wherein at least one is transparent to give the objective element. The element, for example, is obtained by forming an ITO transparent electrode 12 on a glass substrate 11, depositing both 2, 3, 6, 7-tetrahydro-oxo-1H, 5H, 11H-(1)benzopyrano(6,7,8,ij)-quinolizine-10- carboxylic acid of organic luminescent material and 1,1-bis-(4-N,N- ditolylaminophenyl)cyclohexane of organic electron transfer material in vacuum to form a thin film layer 14 of organic luminescent material and finally metallizing In on the thin film layer by electron beam metallizing method to form a back metal electrode 15. (From: *Patent Abstracts of Japan*, Section: C, Section No. 1090, Vol. 17, No. 406, Pg. 127, July 29, 1993 )

**JAPIO**

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